Ontario

Ministry of
Northern Development
and Mines

Sean Conway, Minister of Mines

ONTARIO GEOLOGICAL SURVEY

GEOLOGICAL DATA INVENTORY FOLIO

GDIF 380

McCOOL TOWNSHIP

DISTRICT OF COCHRANE

Compiled by the Staff of
the Resident Geologist's Office
Kirkland Lake

LOCATION MAP

Scale: 1:1 013 760 or 1 inch to 16 miles

NTS Number 42A/09 88-02293/

Mining Claim Map Number

This project is part of Operation Black River-Matheson (BRIM) which was funded equally by the Ontario Ministry of Northern Development and Mines and the Ontario Ministry of Natural Resources.

STATEMENT: This inventory is unedited. Discrepancies may occur for which the Ontario Geological Survey does not assume liability. Information from this source may be quoted if credit is given. Reference to this inventory should be made as follows:

Ontario Geological Survey
1988: McCool Township, District of Cochrane; Ontario Geological Survey, Geological Data Inventory Folio 380, compiled by the staff of the Resident Geologist's Office, Kirkland Lake, 40 p, and 2 maps.

Original Compilation by: Dave Mimeault and Kamal D. Kalicharran

Date	Page Revised	Revised by

Date	Page Revised	Revised by

McCOOL TOWNSHIP

TABLE OF CONTENTS

Data Sources Checklist 1

Metals and Minerals Reference List 2

Mineral Occurrences 3

Type of Work 5

Drill Hole Summary 10

Airborne Geophysical Survey Data 20

Geochemical Survey Data 22

Miscellaneous Data 24

Newspaper Clipping File 25

ODM General Index Search 26

Selected References 28

Notes and Addenda 40

ACCOMPANYING MAPS

Property Location Map 1

Exploration Data Map 1

Map Scale 1: 31 680 or 1 inch to ½ mile

CONVERSION FACTORS FOR MEASUREMENTS IN ONTARIO GEOLOGICAL SURVEY PUBLICATIONS

If the reader wishes to convert imperial units to SI (metric) units or SI units to imperial units the following multipliers should be used:

CONVERSION FROM SI TO IMPERIAL			CONVERSION FROM IMPERIAL TO SI		
SI Unit	*Multiplied by*	*Gives*	*Imperial Unit*	*Multiplied by*	*Gives*
			LENGTH		
1 mm	0.039 37	inches	1 inch	**25.4**	mm
1 cm	0.393 70	inches	1 inch	**2.54**	cm
1 m	3.280 84	feet	1 foot	**0.304 8**	m
1 m	0.049 709 7	chains	1 chain	20.116 8	m
1 km	0.621 371	miles (statute)	1 mile (statute)	**1.609,344**	km
			AREA		
1 cm^2	0.155 0	square inches	1 square inch	**6.451 6**	cm^2
1 m^2	10.763 9	square feet	1 square foot	**0.092 903 04**	m^2
1 km^2	0.386 10	square miles	1 square mile	2.589 988	km^2
1 ha	2.471 054	acres	1 acre	0.404 685 6	ha
			VOLUME		
1 cm^3	0.061 02	cubic inches	1 cubic inch	**16.387 064**	cm^3
1 m^3	35.314 7	cubic feet	1 cubic foot	0.028 316 85	m^3
1 m^3	1.308 0	cubic yards	1 cubic yard	0.764 555	m^3
			CAPACITY		
1 L	1.759 755	pints	1 pint	0.568 261	L
1 L	0.879 877	quarts	1 quart	1.136 522	L
1 L	0.219 969	gallons	1 gallon	**4.546 090**	L
			MASS		
1 g	0.035 273 96	ounces (avdp)	1 ounce (avdp)	28.349 523	g
1 g	0.032 150 75	ounces (troy)	1 ounce (troy)	**31.103 476 8**	g
1 kg	2.204 62	pounds (avdp)	1 pound (avdp)	**0.453 592 37**	kg
1 kg	0.001 102 3	tons (short)	1 ton (short)	**907.184 74**	kg
1 t	1.102 311	tons (short)	1 ton (short)	**0.907 184 74**	t
1 kg	0.000 984 21	tons (long)	1 ton (long)	**1016.046 908 8**	kg
1 t	0.984 206 5	tons (long)	1 ton (long)	**1.016 046 908 8**	t
			CONCENTRATION		
1 g/t	0.029 166 6	ounce (troy)/ ton (short)	1 ounce (troy)/ ton (short)	34.285 714 2	g/t
1 g/t	0.583 333 33	pennyweights/ ton (short)	1 pennyweight/ ton (short)	1.714 285 7	g/t

OTHER USEFUL CONVERSION FACTORS

1 ounce (troy)/ton (short)	20.0	pennyweights/ton (short)
1 pennyweight/ton (short)	0.05	ounce (troy)/ton (short)

One gram(g) per tonne is equivalent to one part per million (1 ppm).

NOTE–Conversion factors which are in bold type are exact. The conversion factors have been taken from or have been derived from factors given in the Metric Practice Guide for the Canadian Mining and Metallurgical Industries published by The Mining Association of Canada in co-operation with the Coal Association of Canada.

DATA SOURCES CHECK LIST

NOTE: The following sources have been searched to compile the data for this area. If no reference data was found the appropriate box is marked 'no'; if reference data was found, the box is marked 'yes'.

All reference data found are included in the following pages. If the box is blank, the data source has not yet been searched. If the box is marked N.A., the source item is Not Applicable to this area and therefore not searched.

	SOURCES OF DATA	Data	Initial
1	Resident Geologist's Office Files	YES	K.D.K.
2	Assessment Files Research Office, Toronto	YES	D.M.
3	ODM General Index; 7 volumes	YES	D.M.
4	Catalogue of Airborne Geophysical Surveys (ODM)	NO	D.M.
5	ODM Mineral Resources Circulars and OGS Mineral Deposits Circulars	YES	D.M.
6	ODM Industrial Mineral Reports	YES	D.M.
7	Bibliography of Post Precambrian Theses - Karrow (ODM MP 1)	NO	K.D.K.
8	Bibliography of Precambrian Theses - Ginn (ODM MP 2)	NO	K.D.K.
9	Newspaper Clippings File	YES	D.M.
10	GSC Index to Publications	NO	K.D.K.
11	OGS Index to Published Maps and Reports - MP 77 and Supplements to MP 77	YES	K.D.K.
12	OGS Index Maps	YES	K.D.K.
13	Source Mineral Deposit Records (O.G.S.)	YES	K.D.K.
14	Author - Subject Articles File	YES	K.D.K.
15	Miscellaneous Papers: ODM & OGS	YES	K.D.K.
16	ODM Geological Circulars: OGS Study Series	YES	K.D.K.
17	ODM Preliminary Reports: ODM Bulletins	YES	K.D.K.
18	ODM – OGS Open File Reports	YES	K.D.K.
19	OGS Northern Ontario Engineering Geology Terrain Studies	YES	D.M.
20	OGS Aggregate Resources Inventory Papers	NO	D.M.
21	OGS Mineral Potential Maps	YES	D.M.

METALS AND MINERALS REFERENCES LIST

△ anh. . . . . .Anhydrite	△ fu. . . . . .Fuchsite	△ Ni. . . . . Nickel	△ st . . . . . .Stone
△ ank. . . . . .Ankerite	△ gn. . . . . Galena	△ Nb . . . . . .Niobium	▲ talc. . . . . .Talc
△ anna . . . . . Annabergite	△ gt . . . . . Garnet	△ Pd . . . . . .Palladium	△ Te . . . . . .Tellurium
△ ap. . . . . .Apatite	△ goe . . . . . .Goethite	△ peat . . . . . .Peat	△ td. . . . . Tetrahedrite
△ arg . . . . . Argentite	▲ Au . . . . . Gold	△ pent . . . . . .Pentlandite	△ th. . . . . .Thorite
△ As . . . . . .Arsenic	▲ gf. . . . . .Graphite	△ Pt. . . . . .Platinum	△ Th . . . . . .Thorium
△ asp . . . . . .Arsenopyrite	△ gl . . . . . Gravel	▲ py . . . . . .Pyrite	△ thuc . . . . . Thucholite
▲ asb . . . . . .Asbestos	△ gyp. . . . . Gypsum	△ pyl . . . . . Pyrochlore	△ ti . . . . . Titanite
△ ba. . . . . .Barite	▲ hem . . . . . Hematite	△ pyrl . . . . . .Pyrolusite	△ Ti. . . . . Titanium
△ be. . . . . .Beryl	△ il . . . . . Ilmenite	▲ po . . . . . .Pyrrhotite	△ tour . . . . . .Tourmaline
△ Bi. . . . . .Bismuth	△ Fe . . . . . .Iron	▲ q . . . . . .Quartz	△ trap . . . . . .Trap rock
▲ bn . . . . . .Bornite	△ IF. . . . . Iron Formation	▲ qcv . . . . .Quartz carbonate vein	△ W. . . . . Tungsten
△ bran . . . . . .Brannerite	△ jas . . . . . Jasper	△ ra. . . . . .Radioactive minerals	△ uran . . . . . Uraninite
△ bruc . . . . . .Brucite	△ kaol . . . . . .Kaolinite (kaolin)	△ RE . . . . . .Rare Earths	△ U . . . . . .Uranium
△ Cd . . . . . .Cadmium	△ ky . . . . . Kyanite	△ sd. . . . . Sand	△ verm . . . . . .Vermiculite
△ calc. . . . . .Calcite	△ Pb . . . . . Lead	△ sgl . . . . . Sand and gravel	△ Y . . . . . Yttrium
▲ carb . . . . . .Carbonate	▲ lim . . . . . Limonite	△ ss . . . . . .Sandstone	△ Zn . . . . . .Zinc
△ cel . . . . . .Celestite	△ Li. . . . . Lithium	△ scap . . . . . Scapolite	△ zr. . . . . Zircon
△ cc. . . . . .Chalcocite	▲ mgst . . . . . .Magnesite	△ shee . . . . . .Scheelite	▲ perid. . . . . .peridotite
▲ cp. . . . . .Chalcopyrite	▲ mag . . . . . .Magnetite	▲ serp . . . . . Serpentine	▲ chl. . . . . .Chlorite
△ ch. . . . . .Chert	△ mc . . . . . .Malachite	△ sh. . . . . .Shale	
△ clay . . . . . .Clay	△ Mn . . . . . Manganese	△ sid . . . . . Siderite	
△ Co . . . . . Cobalt	△ mb . . . . . .Marble	△ si . . . . . .Silica	
△ cob. . . . . Cobaltite	△ mar. . . . . Marcasite	▲ Ag . . . . . .Silver	
△ cb. . . . . .Columbite	△ ma . . . . . .Marl	△ sl . . . . . Slate	
△ Cu . . . . . .Copper	▲ mi . . . . . Mica	△ sm . . . . . .Smaltite	
△ cor . . . . . Corundum	△ ml . . . . . Millerite	△ sod . . . . . Sodalite	
△ dol . . . . . Dolomite	△ mo . . . . . .Molybdenite	△ spec . . . . . .Specularite	
△ ep. . . . . Epidote	△ Mo . . . . . .Molybdenum	▲ sp. . . . . .Sphalerite	
△ ery . . . . . Erythrite	△ mon . . . . . Monazite	△ spd. . . . . .Spodumene	
△ fel . . . . . .Feldspar	△ ne. . . . . Nephelite (nepheline)	△ staur . . . . . .Staurolite	
△ fl . . . . . .Fluorite (fluorspar)	△ nc. . . . . .Niccolite	△ stib. . . . . Stibnite	

Solid triangles indicate metal and mineral occurrences shown on the accompanying maps.

MINERAL OCCURRENCES

Map Ref. Letter	Name(s)	Mineralization	Source Mineral Deposit Record	References in OGS Mineral Deposits Circulars & OGS Industrial Mineral Reports	Additional References and/or Remarks
A	Bonnacord Exploration Ltd.	Au	C0076	AFRO 1973, McCool Tp. BHR 11, AFRO 1973, #63.3071 Resident Geologist, Assessment Files, Kirkland Lake	12' of fine grained, laminated, black, slightly graphitic tuff carrying 10% pyrite pyrrhotite and minor chalcopyrite assayed 0.02oz Au/t.
B	Placer Development Ltd. "Belore Option"	Au,Ag		Resident Geologist Assessment Files Kirkland Lake	DDH #82-3 assayed 28.70gm/tonne Au over 1.5 feet; brecciated serpentinite with 5% quartz-carbonate stringers. DDH #82-3 also assayed 259.50gm/tonne Au and 43.80gm/ton Ag over 1.7 feet; quartz vein with visible gold.(101)
		Au		" "	DDH #82-7 had assays of 23.5gm/tonne Au and 1.83gm/tonne Au over 1 and 3 feet respectively with Ag; quartz carbonate veins with pyrite and pyrrhotite (105).
		Au		" "	DDH #82-8 had an assay of 2.210gm/tonne Au over 1.5 feet, quartz vein with less than 1% pyrite, pyrrhotite and tellurides. (108).
C	Camrose Gold and Metal Mining Company	Asb	C-0079	OGS 1971;IMR 36 p.28 AFRO 1961, McCool Tp. DHR 22, OGS 1952, AR Vol. 61, Pt. 5, p.23-24, AFRO 1950, #63.184	Geophysical and diamond drilling 1950-52, 13 holes 6,759 feet; some thread fibres

MINERAL OCCURRENCES

Map Ref. Letter	Name(s)	Mineralization	Source Mineral Deposit Record	References in OGS Mineral Deposits Circulars & OGS Industrial Mineral Reports	Additional References and/or Remarks
D	Dominion Gulf-Asbestos Corp. "Group 1"	Asb	C-0077	OGS 1971;IMR 36,p.28 AFRO 1961, McCool Tp. DHR 24, OGS 1952, AR Vol. 61, Pt. 5, p.24-25, AFRO 1951, McCool Tp. DHR 13	Geophysical surveys and diamond drilling detected serp, 1950-51, 24 holes were drilled.
E	Dominion Gulf-Asbestos Corp. "Schumacher Option"	Asb		Resident Geologist Assessment Files Kirkland Lake	Geophysical survey and diamond drilling in 1951. Serpentine and fibres encountered in drill holes
F	Gray, A.J.B. "Feldman Group"	Asb		Resident Geologist Assessment Files Kirkland Lake	Drilling intersected serpentine, and fibres, 3 holes
G	Canadian Johns-Manville "McCool and Munro Projects"	Asb		Resident Geologist Assessment Files Kirkland Lake	Drilling has intersected fibres.

McCOOL TOWNSHIP

TYPE OF WORK		Numbers below represent the year in which the work was done;e.g., 68 for 1968.																		
EXPLORATION DATA filed at the RESIDENT GEOLOGIST'S OFFICE KIRKLAND LAKE		GEOLOGICAL	GEOCHEMICAL	TRENCHING, STRIPPING	DRILLING	ASSAY DATA	UNDERGROUND WORK	PROSPECTUS, NOTES, CORRESPONDENCE	AIRBORNE MAGNETOMETER	AIRBORNE ELECTROMAGNETIC	AIRBORNE RADIOMETRIC	GROUND MAGNETOMETER	GROUND ELECTROMAGNETIC	GROUND RADIOMETRIC	INDUCED POLARIZATON	SELF POTENTIAL	RESISTIVITY			
COMPANY/AUTHOR (file number)																				
1	Amax Minerals Exploration "McCool 1"	77 79						78	78 79	79										
2	Amax Minerals Exploration "McCool 2"	79			79															
3	Amax Minerals Exploration "McCool 3"	79																		
4	Amax Minerals Exploration "McCool 4"	79																		
5	Amax Minerals Exploration "McCool 6"	79							79	79										
6	Amax Minerals Exploration "McCool 7"	79			79				82	82										
7	Amax Minerals Exploration "McCool 8"	79			80															
8	Amax Minerals Exploration "Munro 1"	77 79							79	79										
9	Area Mines Ltd.				63															
10	Arrow Timber Co.											50								

GDIF FORM NO. 2

TYPE OF WORK		Numbers below represent the year in which the work was done; e.g., 68 for 1968.																		
EXPLORATION DATA filed at the RESIDENT GEOLOGIST'S OFFICE KIRKLAND LAKE COMPANY/AUTHOR (file number)		GEOLOGICAL	GEOCHEMICAL	TRENCHING, STRIPPING	DRILLING	ASSAY DATA	UNDERGROUND WORK	PROSPECTUS, NOTES, CORRESPONDENCE	AIRBORNE MAGNETOMETER	AIRBORNE ELECTROMAGNETIC	AIRBORNE RADIOMETRIC	GROUND MAGNETOMETER	GROUND ELECTROMAGNETIC	GROUND RADIOMETRIC	INDUCED POLARIZATON	SELF POTENTIAL	RESISTIVITY			
11	Betts Mining Syndicate Ltd. "Lindsay Property"				54							54								
12	Bonnacord Explorations Ltd.	73			73			73 72				73 72	73 72							
13	Camrose Gold & Metal Mining Company				51 50															
14	Canadian Johns-Manville Co. Ltd. "Bird, S.J. Claims"				50															
15	Canadian Johns-Manville Co. Ltd. "Hammond-Hewitt-Heffren"				51															
16	Canadian Johns-Manville Co. Ltd. "Harris Claims"				50															
17	Canadian Johns-Manville Co. Ltd. "McCool Project"	61			61							61								
18	Canadian Johns-Manville Co. Ltd. "McCool-Munro"	49			49 50							49								

GDIF FORM NO. 2

TYPE OF WORK		Numbers below represent the year in which the work was done; e.g., 68 for 1968.																		
EXPLORATION DATA filed at the RESIDENT GEOLOGIST'S OFFICE KIRKLAND LAKE COMPANY/AUTHOR (file number)		GEOLOGICAL	GEOCHEMICAL	TRENCHING, STRIPPING	DRILLING	ASSAY DATA	UNDERGROUND WORK	PROSPECTUS, NOTES, CORRESPONDENCE	AIRBORNE MAGNETOMETER	AIRBORNE ELECTROMAGNETIC	AIRBORNE RADIOMETRIC	GROUND MAGNETOMETER	GROUND ELECTROMAGNETIC	GROUND RADIOMETRIC	INDUCED POLARIZATON	SELF POTENTIAL	RESISTIVITY			
19	Canadian Johns-Manville Co. Ltd. "Southeast McCool Group"	63			64							63	63							
20	Consolidated Ranwick Uranium Mines Ltd.								54		54									
21	Desjardins Mines Ltd.				61															
22	Dominion Gulf-Asbestos Corp. "Group I"				51 53							50								
23	Dominion Gulf-Asbestos Corp. "Group II"	50 54			50							50 51								
24	Dominion Gulf-Asbestos Corp. "Group III"				51							50								
25	Dominion Gulf-Asbestos Corp. "Group IV"											55								
26	Dominion Gulf-Asbestos Corp. "Schumacher Prop."				51															
27	Flagro Mines, Ltd.							50				51 52								

GDIF FORM NO. 2

TYPE OF WORK		Numbers below represent the year in which the work was done; e.g., 68 for 1968.																		
EXPLORATION DATA filed at the RESIDENT GEOLOGIST'S OFFICE KIRKLAND LAKE COMPANY/AUTHOR (file number)		GEOLOGICAL	GEOCHEMICAL	TRENCHING, STRIPPING	DRILLING	ASSAY DATA	UNDERGROUND WORK	PROSPECTUS, NOTES, CORRESPONDENCE	AIRBORNE MAGNETOMETER	AIRBORNE ELECTROMAGNETIC	AIRBORNE RADIOMETRIC	GROUND MAGNETOMETER	GROUND ELECTROMAGNETIC	GROUND RADIOMETRIC	INDUCED POLARIZATON	SELF POTENTIAL	RESISTIVITY			
28	Fournier, E.			84	84															
29	Gray, A.J.B.				51 52							50								
30	Imperial Oil Limited												75							
31	The International Nickel Co. of Canada Ltd.				63															
32	Kapuskasing Resources Ltd.	84										84	84	84						
33	Kennco Explorations (Canada) Ltd.	65							65	65										
34	Kruk, T.				52							xx								
35	Labrador Mining & Exploration Ltd. "Munro Project"											85	85							
36	Lee Geo Indicators Ltd.	74		74	74								73							
37	Newmont Mining Corp. of Canada Ltd.											73	73							

GDIF FORM NO. 2

xx Date Unknown

TYPE OF WORK		Numbers below represent the year in which the work was done; e.g., 68 for 1968.																		
EXPLORATION DATA filed at the RESIDENT GEOLOGIST'S OFFICE KIRKLAND LAKE COMPANY/AUTHOR (file number)		GEOLOGICAL	GEOCHEMICAL	TRENCHING, STRIPPING	DRILLING	ASSAY DATA	UNDERGROUND WORK	PROSPECTUS, NOTES, CORRESPONDENCE	AIRBORNE MAGNETOMETER	AIRBORNE ELECTROMAGNETIC	AIRBORNE RADIOMETRIC	GROUND MAGNETOMETER	GROUND ELECTROMAGNETIC	GROUND RADIOMETRIC	INDUCED POLARIZATON	SELF POTENTIAL	RESISTIVITY	BENEFICIATION TESTS OF DIAMOND DRILL CORE	GOLDSPEAR	
38	Union Carbide Expl. Ltd. "Merrel"																	66		
39	Union Carbide Expl. Ltd.								64	64										
40	Yellow Sands Prospecting Syndicate					85						83							85	
41	Young Davidson Mines Ltd.				60 61 63															
42	Noranda Exploration Co. Ltd.	85		85								85								
43	Texas Gulf Sulphur Co.											72	72							
44	Rayville Matheson Asbestos Ltd.				51 52															
45	Leitch Gold Mines Ltd.											64	64							
46	Placer Development Limited	81 82			82							81 82	81 82							

DRILLHOLE SUMMARY

Map Drilling Location Number	Company Name	Company Drillhole Number	Date Drilled	Bearing Azimuth	Initial Dip of Hole	Thickness of Overburden *	Total Length of Hole	Mineralization Noted in Log	Assay Data Included for
1	Amax Minerals Expl. "McCool 2"	839-16-1	11/79	200°	-50°	68'	444'	po,cp,py,gf	-
2	Amax Minerals Expl. "McCool 7"	839-28-1	11/79	200°	-50°	120'	560'	gf,qcv,po,cp	Au,Ag,Cu, Zn
3	" "	839-28-2	11/79	200°	-50°	134'	486'	gf,py,qcv,po	Au,Ag,Cu, Zn
4	Amax Minerals Expl. "McCool 8"	839-29-1†	08/80	210°	-50°	177'	430'	gf,py	-
5	Area Mines Ltd.	315-1	07/63	200°	-45°	17'	280'	py,po,qcv,cp hem,mag,gf	-
6	Betts Mining Synd. Ltd. "Lindsay Property"	B-4	09/54	0°	-60°	80'	666'	mag.serp,qcv talc	-
7	Bonnacord Expl. Ltd.	B73-A1	08/73	57°	-70°	20'	357'	mag,py,po cp,qcv	Au,Cu
8	" "	B73-B1	08/73	201°	-50°	169'	169'	-	-
9	" "	B73-B2	09/73	201°	-70°	170'	421'	py,cp,qcv,po	Au,Cu,Zn 12' @ 0.02 oz Au/t
10	Camrose Gold & Metal Mining Co.	1	09/50	180°	-45°	22'	835'	serp,mag.asb	asb
11	" "	2	10/50	190°	-45°	20'	736'	asb	asb
12	" "	3	11/50	180°	-45°	67'	894'	asb	asb

GDIP FORM NO. 3

† - Core stored at Swastika Drill Core Storage Library
* - Length of Overburden down drill hole

DRILLHOLE SUMMARY

Map Drilling Location Number	Company Name	Company Drillhole Number	Date Drilled	Bearing Azimuth	Initial Dip of Hole	Thickness of Overburden *	Total Length of Hole	Mineralization Noted in Log	Assay Data Included for
13	Camrose Gold & Metal Mining Co.	4	01/51	180°	-50°	35'	756'	asb	asb
14	" "	5	06/51	185°	-50°	72'	779'	asb,py,po mag	asb
15	" "	6A	07/51	200°	-50°	65'	281'	serp,po,py,cp	-
16	" "	7	08/51	180°	-50°	8'	328'	serp,mag	-
17	" "	8†	09/51	-	-90°	36'	326'	serp,po	-
18	" "	9†	10/51	192°	-75°	5'	300'	serp	-
19	Canadian Johns-Manville Co. Ltd. "Bird, S.J. Claims"	MC-9	10/50	42°	-60°	118'	656'	mag,qcv,asb	-
20	Canadian Johns-Manville Co. Ltd. "Hammond-Hewitt-Heffren"	MC-10	07/51	-	-90°	180'	295'	qcv	-
21	Canadian Johns-Manville Co. Ltd. "Harris Claims"	MC-7	09/50	42°	-45°	140'	708'	serp,mag	-
22	Canadian Johns-Manville Co. Ltd. "McCool Project"	MC-11	06/61	219°	-45°	152'	723'	mag.serp,py asb	-

GDIF FORM NO. 3

† - Core stored at Swastika Drill Core Storage Library
* - Length of Overburden down drill hole

DRILLHOLE SUMMARY

Map Drilling Location Number	Company Name	Company Drillhole Number	Date Drilled	Bearing Azimuth	Initial Dip of Hole	Thickness of Overburden *	Total Length of Hole	Mineralization Noted in Log	Assay Data Included for
23	Canadian Johns-Manville Co. Ltd. "McCool Project"	MC-12	07/61	55°	-45°	48'	763'	serp,mag,py asb	-
24	" "	MC-13A	07/61	235°	-45°	122'	605'	mag,asb,py	-
25	" "	MC-13	07/61	235°	-45°	83'	83'	-	-
26	" "	MC-14	09/61	180'	-45°	95'	570'	qcv,py,cp,mgst	-
27	Canadian Johns-Manville Co. Ltd. "McCool-Munro"	MC-1	10/49	42°	-45°	157'	832'	serp,qcv,mag asb	-
28	" "	MC-2	11/49	42°	-45°	69'	749'	serp,mag,asb	-
29	" "	MC-3	11/49	57°	-45°	45'	887'	serp,asb,mag,cp	-
30	" "	MC-4	-	42°	-45°	15'	833'	mag,asb	-
31	" "	MC-5	02/50	42°	-45°	58'	588'	asb,mag	-
32	" "	MC-6	08/50	42°	-45°	20'	703'	mag,asb	-
33	" "	MC-8	-	42°	-45°	131'	658'	qcv,py,asb	-
34	Canadian Johns-Manville Co. Ltd. "Southeast McCool Group"	MC-64-2	10/64	30°	-45°	124'	616'	mag,cp,qcv	-
35	" "	MC-64-3	11/64	30°	-45°	161'	602'	hem,py,mag,asb	-

ODIP FORM NO. 3

† - Core stored at Swastika Drill Core Storage Library
* - Length of Overburden down drill hole

DRILLHOLE SUMMARY

Map Drilling Location Number	Company Name	Company Drillhole Number	Date Drilled	Bearing Azimuth	Initial Dip of Hole	Thickness of Overburden *	Total Length of Hole	Mineralization Noted in Log	Assay Data Included for
36	Desjardins Mines Ltd.	D-1	11/61	55°	-45°	96'	917'	mag,asb	-
37	Dominion Gulf-Asbestos Corp. "Group 1"	51-AG-MI-1†	01/51	200°	-45°	149'	852'	mag,asb,qcv	-
38	" "	51-AG-MI-2†	01/51	180°	-45°	95'	906'	mag,asb	-
39	" "	51-AG-MI-3†	02/51	231°	-45°	102'	821'	mag,asb	-
40	" "	51-AG-MI-4†	02/51	231°	-45°	90'	848'	mag,asb	-
41	" "	51-AG-MI-5†	02/51	213°	-45°	85'	563'	mag	
42	" "	51-AG-MI-6†	02/51	200°	-45°	128'	450'	mag,asb	-
43	" "	51-AG-MI-7†	03/51	190°	-45°	99'	850'	mag,asb	-
44	" "	51-AG-MI-8†	03/51	177°	-45°	40'	856'	mag,asb	-
45	" "	51-AG-11-9	1951	177°	-45°	42'	850'	mag,asb	-
46	" "	51-AG-11-10	1951	177°	-45°	65'	405'	mag,asb	-

† - Core stored at Swastika Drill Core Storage Library

* - Length of Overburden drop [illegible]

ODIP FORM NO. 3

DRILLHOLE SUMMARY

Map Drilling Location Number	Company Name	Company Drillhole Number	Date Drilled	Bearing Azimuth	Initial Dip of Hole	Thickness of Overburden *	Total Length of Hole	Mineralization Noted in Log	Assay Data Included for
46a	Dominion Gulf-Asbestos Corp. "Group 1"	51-AG-11-11	04/51	180°	-45°	165'	790'	asb	-
47	" "	51-AG-11-12	04/51	180°	-45°	153'	355'	mag,asb	-
48	" "	51-AG-11-13	04/51	180°	-45°	180'	658'	asb	-
49	" "	51-AG-11-14	04/51	165°	-45°	95'	703'	asb,mag	-
50	" "	51-AG-11-15	05/51	205°	-45°	210'	538'	mag,asb	-
51	" "	51-AG-11-16	1951	012°	-45°	162'	464'	mag	-
52	" "	51-AG-11-17	1951	025°	-45°	175'	678'	mag	-
53	" "	51-AG-11-18	1951	192°	-45°	155'	538'	asb,mag	-
54	" "	51-AG-11-19	1951	7°	-45°	228'	885'	asb,mag	-
55	" "	51-AG-11-20	1951	192°	-45°	167'	505'	asb	-
56	" "	51-AG-11-21	1951	010°	-45°	144'	703'	mag,serp	-

GDIF FORM NO. 3

† - Core stored at Swastika Drill Core Storage Library
* - Length of Overburden down drill hole

DRILLHOLE SUMMARY

Map Drilling Location Number	Company Name	Company Drillhole Number	Date Drilled	Bearing Azimuth	Initial Dip of Hole	Thickness of Overburden *	Total Length of Hole	Mineralization Noted in Log	Assay Data Included for
57	Dominion Gulf-Asbestos Corp. "Group I"	51-AG-11-23	1951	07°	-45°	246'	1004'	asb,mag	-
58	" "	51-AG-11-24	1951	07°	-45°	237'	732'	mag,asb	-
59	" "	51-AG-2-25	1953	-	-	113'	200'	hole adandoned	-
60	" "	53-AG-2-26†	1953	-	-	110'	694'	asb,mag	-
61	" "	53-AG-2-27A†	1953	312°	-60°	93'	872'	asb.amg	-
62	" "	53-AG-2-28†	1953	340°	-60°	130'	1001'	asb,mag	-
63	Dominion Gulf-Asbestos Corp. "Group II"	50-AG-4-1	10/50	187°	-45°	22'	520'	serp	-
64	" "	50-AG-4-3	10/50	227°	-45°	223'	1000'	serp	-
65	Dominion Gulf-Asbestos Corp. "Group III"	51-AG-III-1	06/51	170°	-45°	72'	703'	serp	-
66	" "	51-AG-III-2	07/51	200°	-45°	50'	500'	qcv	-
67	" "	51-AG-III-3	07/51	236°	-45°	105'	483'	qcv,serp	-

† - Core stored at Swastika Drill Core Storage Library
* - Length of Overburden down drillhole

GDIF FORM NO. 3

DRILLHOLE SUMMARY

Map Drilling Location Number	Company Name	Company Drillhole Number	Date Drilled	Bearing Azimuth	Initial Dip of Hole	Thickness of Overburden *	Total Length of Hole	Mineralization Noted in Log	Assay Data Included for
68	Dominion Gulf-Asbestos Corp. "Group III"	51-AG-111-4	07/51	250°	-45°	65'	413'	serp,qcv	-
69	" "	51-AG-111-5	08/51	71°	-45°	60'	804'	mag,serp,qcv po,cp	-
70	Dominion Gulf-Asbestos Corp. "Schumacher Prop."	51-AG-S-1†	11/51	228°	-45°	205'	912'	po,serp,mag, asb	-
71	" "	51-AG-S-2†	11/51	-	-90°	134'	600'	asb,mag	-
72	" "	51-AG-S-3†	11/51	-	-90°	129'	737'	serp,asb	
73	" "	51-AG-S-4	11/51	-	-90°	140'	1006'	serp,asb	-
74	" "	51-AG-S-5†	11/51	-	-90°	128'	724'	asb,serp	-
75	Fournier, E.	1	07/84	260°	-50°	83'	139'	mag,asb,serp	-
76	" "	2	08/84	134°	-47°	0'	175'	mag,asp,serp	-
77	Gray, A.J.B.	7†	12/51	99°	-50°	146'	1197'	py,cp,qcv,mag	-
78	" "	9†	06/52	62°	-50°	186'	835'	mag,serp,asb	-
79	" "	10	06/52	90°	-50°	113'	986'	mag,asb	-

† - Core stored at Swastika Drill Core Storage Library
* - Length of Overburden down drill hole

DRILLHOLE SUMMARY

Map Drilling Location Number	Company Name	Company Drillhole Number	Date Drilled	Bearing Azimuth	Initial Dip of Hole	Thickness of Overburden *	Total Length of Hole	Mineralization Noted in Log	Assay Data Included for
80	International Nickel Co. of Canada Ltd.	18166	08/63	0°	-45°	24'	155'	asb,py,mag	-
81	" "	18165	08/63	180°	-50°	20'	510'	asb,mag	-
82	Kruk, T.	1	04/52	210°	-45°	102'	709'	py,sp,cp,qcv mag,bn	-
83	" "	2	05/52	210°	-45°	101'	496'	serp	-
84	Lee Geo Indicators Ltd.	1†	7/74	352°	-50°	119'	372'	qcv,carb,chl, gf,py	-
85	Young-Davidson Mines Ltd.	Y8	10/63	36°	-45°	61'	1156'	perid,serp	-
86	" "	Y7	9/63	221°	-44°	0'	1045'	perid,serp	-
87	" "	Y6	10/61	26°	-45°	178'	936'	perid,serp,mag	-
88	" "	Y5	10/61	207°	-45°	143'	661'	perid,serp	-
89	" "	Y4	10/61	228°	-45°	111'	742'	perid	-
90	" "	Y3	11/60	70°	-55°	159'	1215'	perid,mag	-
91	" "	Y1	10/60	43°	-45°	8'	1389'	perid,mag,serp	-
92	Rayville Matheson Asb. Ltd.	1†	8/51	221°	-50°	125'	790'	perid,serp	-
93	" "	2†	9/51	226°	-50°	95'	886'	perid,serp	-

† - Core stored at Swastika Drill Core Storage Library
* - Length of Overburden

DRILLHOLE SUMMARY

Map Drilling Location Number	Company Name	Company Drillhole Number	Date Drilled	Bearing Azimuth	Initial Dip of Hole	Thickness of Overburden *	Total Length of Hole	Mineralization Noted in Log	Assay Data Included for
94	Rayville Matheson Asb. Ltd.	3†	10/51	39°	-45°	60'	709'	serp,perid	-
95	" "	4	10/51	75°	-45°	170'	248'	serp	-
96	" "	6†	10/51	75°	-50°	170'	907'	serp	-
97x	" "	11	9/52	214°	-55°	88'	675'	serp,perid	-
98	" "	12	8/52	233°	-50°	105'	1367'	serp,perid	-
99	Placer Development Ltd. "Belore Option"	82-1†	3/82	192°	-55°	226'	575'	chl,carb,gf,py	Au,Ag
100	" "	82-2†	3/82	192°	-55°	223'	492'	serp,chl,qcv	Au,Ag
101	" "	82-3†	4/82	192°	-55°	144'	492'	qcv, mag, py, gf	Au,Ag
102	" "	82-4†	4/82	90°	-55°	209'	576'	chl,po,py qcv	Au,Ag
103	" "	82-5†	4/82	90°	-60°	188'	650'	py,po,chl carb,qcv	Au,Ag
104	" "	82-6†	5/82	90°	-55°	201'	574'	py,po,lim, gf,qcv,chl	Au,Ag
105	" "	82-7†	5/82	180°	-55°	172'	650'	qcv,py,po chl	Au,Ag

GDIF FORM NO. 3

† - Core stored at Swastika Drill Core Storage Library
* - Length of Overburden down drill hole
x - Location unknown

DRILLHOLE SUMMARY

Map Drilling Location Number	Company Name	Company Drillhole Number	Date Drilled	Bearing Azimuth	Initial Dip of Hole	Thickness of Overburden *	Total Length of Hole	Mineralization Noted in Log	Assay Data Included for
106	Placer Development Ltd. "Belore Option"	82-8†	5/82	280°	-55°	130'	575'	qcv,py,po chl	Au,Ag
107	" "	82-9†	5/82	192°	-60°	130'	600'	qcv,mg,py,po chl,mi	Au,Ag

GDIF FORM NO. 3

† - Core stored at Swastika Drill Core Storage Library

* Length of Casing

AIRBORNE GEOPHYSICAL SURVEY DATA

No.	By For	Type of Survey	Flight Altitude	Flight Line Direction	Flight Line Spacing
1	Questor Surveys Limited Amax Potash	Airborne Magnetic (Geometrics G-803 proton precession magnetometer) Airborne Electromagnetic (Mark VI Input electromagnetic system)		20°	1/8 & 1/4m
1	Aerodat Limited Amax of Canada Limited	Airborne Magnetic (Barringer AM-104 proton precession magnetometer) Airborne Electromagnetic (Aerodat/Perle electromagnetic system)	71.6m (235ft)	20°	125m
5	Aerodat Limited Amax of Canada Limited	Airborne Electromagnetic (Aerodat/Perle Electromagnetic system) Airborne Magnetic (Barringer AM-104 Proton precession magnetometer)	71.6m (235ft)	20°	125m
6	Aerodat Limited Amax of Canada Limited	Airborne Electromagnetic (Aerodat/ Perle 915 Hz and 3800 Hz) Airborne Magnetic (Barringer AM-104 Proton precession magnetometer)	71.6m (235ft)	20°	125m
8	Aerodat Limited Amax Minerals Exploration	Airborne Electromagnetic (Aerodat/Perle, 915 Hz and 3800 Hz) Airborne Magnetic (Barringer AM-104 Proton precession magnetometer)	71.6m (235ft)		125m
20	Aeromagnetic Surveys Ltd. Consolidated Ranwick Uranium Mines, Ltd.	Airborne Magnetic (P.S.C. Airborne Magnetometer) Airborne Radiometric (P.S.C. Applied Research MK.11A Airborne Scintillation Counter)	1400ft	N-S	660ft 2640ft

GDIF FORM NO. 4

AIRBORNE GEOPHYSICAL SURVEY DATA

No.	By For	Type of Survey	Flight Altitude	Flight Line Direction	Flight Line Spacing
33	Canadian Aero Mineral Surveys Ltd. Kennco Explorations (Canada) Ltd.	Electromagnetic Magnetic	150ft	N-S	1/8 mi
39	Canadian Aero Mineral Surveys Ltd. Union Carbide Explorations Ltd.	Electromagnetic Magnetic	150ft 150ft	N-S N-S	1/8mi 1/8mi

GDIF FORM NO. 4

Map Sample Site Reference Number	GEOCHEMICAL SURVEY DATA		By	Reference
	Type of Survey	Analysis For		

GDIF FORM NO. 5

McCool Township

Map Sample Site Reference Number	GEOCHEMICAL SURVEY DATA		By	Reference
	Type of Survey	Analysis For		

GDIF FORM NO. 5

MCCOOL TOWNSHIP

MISCELLANEOUS DATA

AGE DATING

Site	Method	Material	Reference	Result

Aerial Photographs

Black and White scale 1:1/4 mile
scale 1:1 mile

Landsat Data scale 1:500,000

Band 3 , 9/5/83
Band 4 , 31/2/83
Bands 1+2+4 , 2/10/83
Bands 1+2+4 , 9/5/83

GDIP FORM NO. 6

NEWSPAPER CLIPPINGS FILE

NOTE: A file of newspaper clippings about the companies listed below, who have worked in this area, is maintained in the Regional/Resident Geologist's Office. Kirkland Lake

Bonnacord			
	The Northern Miner	Aug 09, 1973	
Canadian Johns Manville			
	The Northern Miner	Nov 10, 1949	
Flagro			
	The Northern Miner	Jun 19, 1952	
Munro			
	The Northern Miner	Aug 25, 1949	Jul 13, 1957
Northwest Canalask			
	The Northern Miner	Mar 27, 1969	
Placer			
	The Northern Miner	Apr 29, 1982	May 27, 1982
		Mar 15, 1984	Aug 09, 1984
		Sep 27, 1984	Sep 27, 1984
	Timmins Daily Press	Sep 13, 1984	Sep 13, 1984
Young Davidson			
	The Northern Miner	Jul 17, 1958	May 14, 1959
		Jul 06, 1961	Oct 10, 1968

ODM GENERAL INDEX SEARCH

Words searched: McCool Township

Index Volume	Listing:	Report Volume	Part	Page
2	McCool Tp., Coch.			
	Asbestos	28	2	28,66
	Carbonate in chert, photomierograph	28	2	26
	Diabase	28	2	29
	epidote in, photo	28	2	28
	Forest fires	28	2	6
	Gabbro, epidote in	34	6	53
	Geology	28	2	25
	Gold, alluvial	30	2	8
	prospecting	28	2	52
	Lakes, character	28	2	4
	Magnesite	28	2	33
	Map, geological. see map 28b with	28	2	
	Pleistocene deposits	28	2	39,40
	Serpentine and pyroxenite, notes and			
	diagram	28	2	32
	dips found in crossing	28	2	32
	Silver prospecting by Tretheway Mg.			
	Co.	26		126
4	McCool Tp., Coch.			
	Rocks	58	4	9
5	McCool Tp., Coch.			
	Asbestos claims	60	8	40,42
	Geology, report on, with maps			
	by J. Satterly	61	5	
	Gold mg.	61	2	69
	Nickel-chromium	60	8	57
	Asbestos, McCool tp., mining			
	properties	61	5	23-27
	Gold, McCool tp.	61	5	27,28
7	McCool Tp., Coch.			
	Asbestos			
	Exploration for	IMR	1	15,16
	Occurrence	IMR	1	6,8
8	McCool Tp., Coch.			
	Asbestos	IMR036		44,46
				57-59

GDIF FORM NO.9

ODM GENERAL INDEX SEARCH

Words searched:

Index Volume	Listing:	Report Volume	Part	Page

GDIF FORM NO. 8

McCOOL TOWNSHIP

SELECTED REFERENCES

Author	Date	Title	Reference	Map Scales and/or Report Pages
		REGIONAL GEOLOGICAL COMPILATION MAPS		
Ayers, L.D. Lumbers, S.B. Milne, V.G. Robeson, D.W.	1970	Ontario Geological Map	ODMNA Map 2196	1:1 013 760
Ayers, L.D. Lumbers, S.B. Milne, V.G. Robeson, D.W.	1971	Ontario Geological Map, East Central Sheet	ODMNA Map 2198	1:1 013 760
Boissoneau, A.N.	1965	Algoma-Cochrane Surficial Geology, Ontario	ODL & F Map S365	1:506 880
Boissoneau, A.N.	1965	Algoma, Sudbury, Timiskaming and Nipissing Surficial Geology	ODL & F Map S465	1:506 880
Card, K.D. Sanford, B.V.	1983	Geology of the Timmins Map Sheet (NM-17)	GSC OF 956	1:1 000 000
Easton, R.M.	1986	Geochronology Compilation Map for Ontario: Sheet 3: East-Central Ontario, All Isotopic Systems	OGS Map P.2842	1:1 013 760
Ginn, R.M.	1964	Timmins-Kirkland Lake Sheet, Cochrane, Sudbury and Timiskaming Dists., Ont. Geol. Compilation Series	ODM Map 2046	1:253 440
Gordon, J.B.	1977	Gold Deposits of Ontario, East Central Sheet	OGS Map P.1228	1:1 013 760
Gordon, J.B.	1980	Vein Silver Deposits of Ontario, East Central Sheet	OGS Map P.2300	1:1 013 760
Guillet, G.R.	1977	Clay and Shale Deposits of Ontario	OGS Map 2358 (MDC 15)	1:200 000

GDIF FORM NO.8

SELECTED REFERENCES

Author	Date	Title	Reference	Map Scales and/or Report Pages
Jost, M.	1977	Nickel Deposits of Ontario, East Central Sheet	OGS Map P.1062	1:1 013 760
Lumbers, S.B. Milne, V.G.	1979	Ontario Geological Map, Explanatory Text, Legend and Diagrams of Major Lithologies, Structures and Zones of Metamorphism	OGS Map 2391	1:1 013 760
Lumbers, S.B. Milne, V.G.	1979	Ontario Geological Map, East Central Sheet	OGS Map 2393	1:1 013 760
McCrank, G.F. Brown, P.A. Misiura, J.D.	1980	Plutonic Rocks in Ontario, with map	GSC OFR 706	
MERQ-OGS	1984	Lithostratigraphic Map of the Abitibi Subprovince	OGS Map 2484 Que Map DV83-16	1:500 000
Meyn, H.D. Howarth, J.R.	1977	Molybdenum Deposits of Ontario, East Central Sheet	OGS Map P.1246	1:1 013 760
Meyn, H.D. Robertson, J.A.	1975	Iron Deposits of Ontario, East Central Sheet, Districts of Thunder Bay, Algoma, Cochrane, Sudbury, Timiskaming and Nipissing	ODM Map P.1043	1:1 013 760
Ministry of Natural Resources	1985	Ontario Mineral Map	ODM Map 2472	1:1 584 000
Minnes, D.G. Masham, J.S. Scott, D.W. Vos, M.A. & Yundt, S.E.	1983	Industrial Minerals of Ontario	OGS Map P.2591	1:1 500 000
ODM	1969	Mining Divisions and Resident Geologists Districts	ODM Map 2189	1:1 584 000
ODM	1974	Ontario Mineral Map	ODM Map 2310	1:1 584 000

SELECTED REFERENCES

Author	Date	Title	Reference	Map Scales and/or Report Pages
ODM	1977	Ontario Geology and Principal Minerals	ODM Map 2389 (Rev.)	1:4 224 000
ODMNA	1971	Ontario Geology and Principal Mineral Collecting Localities, Discover Ontario	ODMNA Map 2211	1:4 224 000
OGS	1986	Geological Highway Map, Northern Ontario	OGS Map 2506	1:1 600 000
Pyke, D.R., Ayres,L.D. & Innes, D.G.	1973	Timmins - Kirkland Lake, Geological Compilation Series, Cochrane, Sudbury and Timiskaming Districts	ODM Map 2205	1:253 440
Robertson, J.A.	1976	Mineral Potential Map of Ontario, East Central Sheet	ODM Map P.1099	1:1 013 760
Robertson, J.A.	1982	Uranium and Thorium Deposits of Ontario, East Central Sheet, NTS 31/NW, 32/W, 41/N, 42	OGS Map P.2426	1:1 013 760
Springer, J.	1977	Ontario Mineral Potential, Timmins Sheet and Part of Noranda-Rouyn Sheet, Districts of Sudbury, Timiskaming and Cochrane	OGS Map P.1517	1:250 000
		GEOPHYSICAL MAPS		
Data Plotting Services Inc.	1984	Matheson-Black River Area (BRIM) Magnetic Survey Total Field, based on Airborne Electromagnetic and Total Intensity Magnetic Survey, Matheson-Black River Area, by Questor Surveys Ltd. for the OGS. (1984)	MNDM Resident Geologist's Office, Kirkland Lake, Ontario	1:80 000
Data Plotting Services Inc.	1985	Matheson-Black River Area (BRIM) Airborne Magnetic Survey Second Vertical Derivative based on Airborne Electromagnetic and Total Intensity Magnetic Survey, Matheson-Black River Area, by Questor Surveys Ltd. for the OGS. (1984)	MNDM Resident Geologist's Office, Kirkland Lake, Ontario	1:100 000

SELECTED REFERENCES

Author	Date	Title	Reference	Map Scales and/or Report Pages
Dighem Surveys and Processing Inc.	1986	"Enhanced Shadow" Magnetics, Black River-Matheson Area (BRIM) based on Airborne Electromagnetic and Total Intensity Magnetic Survey, Matheson-Black River Area, by Questor Surveys Ltd. for the OGS. (1984)	MNDM Resident Geologist's Office, Kirkland Lake, Ontario	1:100 000
GSC	1970	Matheson, Cochrane District, Aeromagnetic Series	GSC Map 296G (Rev.)	1:63 360
GSC	1970	Timmins, Cochrane, Timiskaming and Sudbury Districts, Ontario, Total Field Contour Map, Aeromagnetic Series	GSC Map 7085G	1:250 000
GSC	1970	Matheson, Cochrane District, Ontario, Aeromagnetic Series	GSC Map 8431G	1:31 680
GSC	1975	Matheson East, NTS 42A/9a, Geophysical Series (High Resolution Aeromagnetic)	GSC Map 20 147	1:25 000
GSC	1975	Matheson East, NTS 42A/9b, Geophysical Series (High Resolution Aeromagnetic)	GSC Map 20 153	1:25 000
ODMNA	1974	Aeromagnetic Index of Ontario	ODMNA Map 2229	1:1 900 800
OGS	1984	Airborne Electromagnetic and Total Intensity Magnetic Survey, Matheson-Black River Area, McCool Township	OGS Map 80 587	1:20 000 1:31 680
OGS	1984	Ontario Mineral Deposit Inventory	OGS OFR 5470	
OGS-GSC	1979	Airborne Gamma-Ray Spectrometric Total Count, Timmins, NTS 42A	OGS Map 80 280 GSC Map 35142G	1:250 000

SELECTED REFERENCES

Author	Date	Title	Reference	Map Scales and/or Report Pages
OGS-GSC	1979	Airborne Gamma-Ray Spectrometric Potassium (percent), Timmins, NTS 42A	OGS Map 80 281 GSC Map 35142G	1:250 000
OGS-GSC	1979	Airborne Gamma-Ray Spectrometric Uranium (eU), Timmins, NTS 42A	OGS Map 80 282 GSC Map 35142G	1:250 000
OGS-GSC	1979	Airborne Gamma-Ray Spectrometric Thorium (eTh), Timmins, NTS 42A	OGS Map 80 283 GSC Map 35142G	1:250 000
OGS-GSC	1979	Airborne Gamma-Ray Spectrometric eU/Th Ratio, Timmins, NTS 42A	OGS Map 80 284 GSC Map 35142G	1:250 000
OGS-GSC	1979	Airborne Gamma-Ray Spectrometric eU/K Ratio, Timmins, NTS 42A	OGS Map 80 285	1:250 000
OGS-GSC	1979	Airborne Gamma-Ray Spectrometric eTh/K Ratio, Timmins, NTS 42A	OGS Map 80 286 GSC Map 35142G	1:250 000
OGS-GSC	1979	Airborne Gamma-Ray Spectrometric Profiles of Integral U. Th, K, U/Th, U/K, Th/K, for line 62 (1), Timmins, NTS 42A	OGS Map 80 317 GSC Map 35142G	1:250 000
OGS-GSC	1979	Airborne Gamma-Ray Spectrometric Profiles of Integral U, Th, K, U/Th, U/K, Th/K, for line 63 (1), Timmins, NTS 42A	OGS Map 80 318 GSC Map 35142G	1:250 000
		GEOLOGICAL MAPS AND REPORTS		
Baker, C.L.	1985	Overburden Stratigraphy of the Matheson Area: Advancing Thoughts on Ice Fronts (Abstract)	OGS Geo.Sci. Seminar & Open House '85	p.9

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Author	Date	Title	Reference	Map Scales and/or Report Pages
Baker, C.L. McClenaghan, M.B. Steele, K.G.	1985	Reconnaissance Heavy Mineral and Geochemical Sampling of the Munro Esker, Lake Abitibi Area, Cochrane District	OGS MP 126	p.297-300
Baker, C.L. Steele, K.G.	1984	Sonic Drilling-Exploration Basics in the Matheson Area (Abstract)	OGS Geo. Sci. Seminar & Open House '85	p.23
Baker, C.L. Steele, K.G. McClenaghan, M.B.	1985	Reconnaissance Till Sampling Program, Matheson-Lake Abitibi Area, Cochrane District	OGS MP 126	p.329-333
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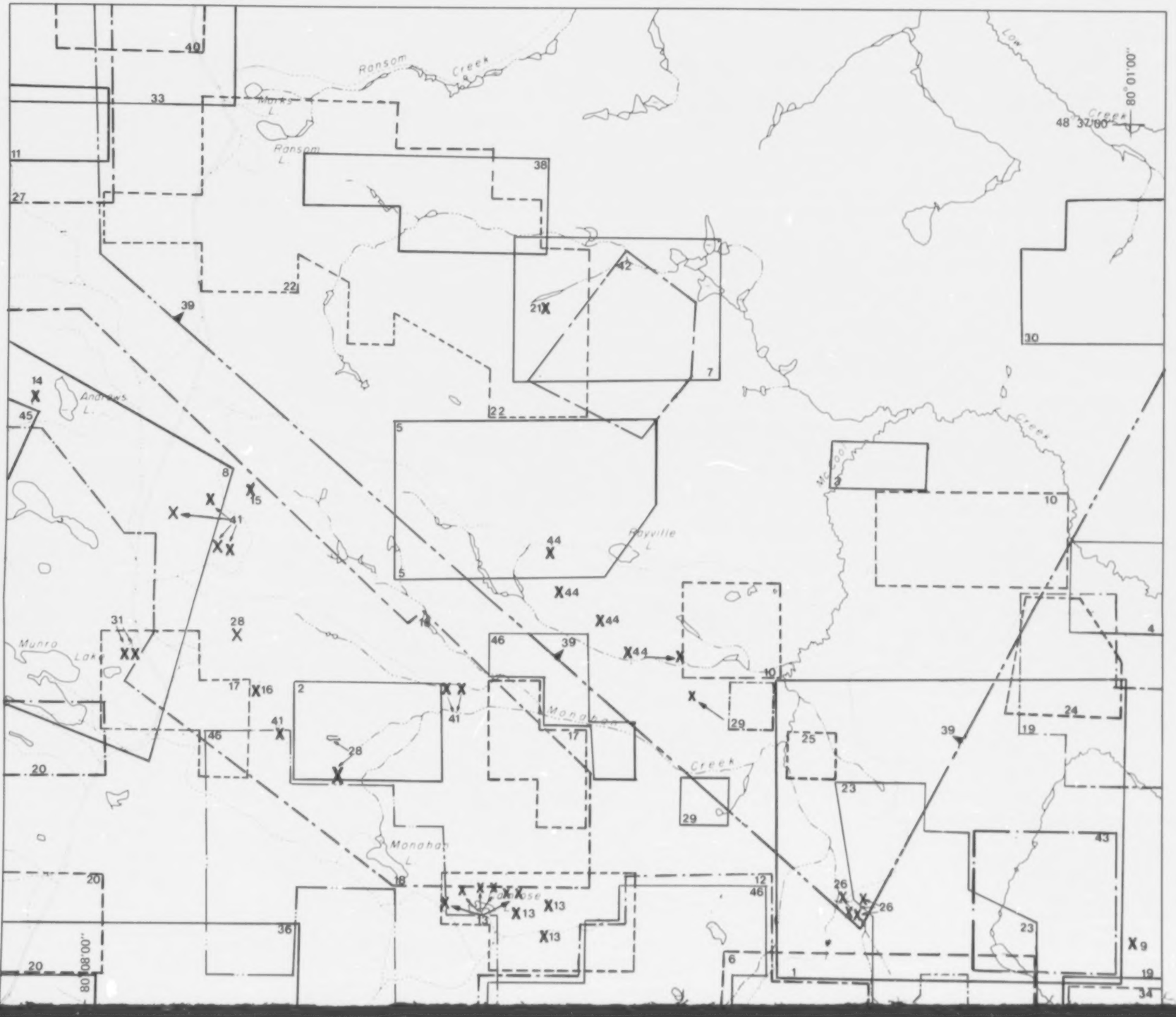


Ministry of Northern Development and Mines

Ontario

Sean Conway, Minister of Mines

ONTARIO GEOLOGICAL SURVEY

PROPERTY LOCATION MAP

GEOLOGICAL DATA INVENTORY FOLIO 380

(Map 1 of 2)

McCOOL TOWNSHIP

DISTRICT OF COCHRANE

Scale 1:31 680

Kilometre 0.5 0 0.5 1 Kilometre

Mile 0.5 0 0.5 1 Mile

EXPLORATION DATA IN FARFAS

PROPERTY LOCATION MAP

GEOLOGICAL DATA INVENTORY FOLIO 380

(Map 1 of 2)

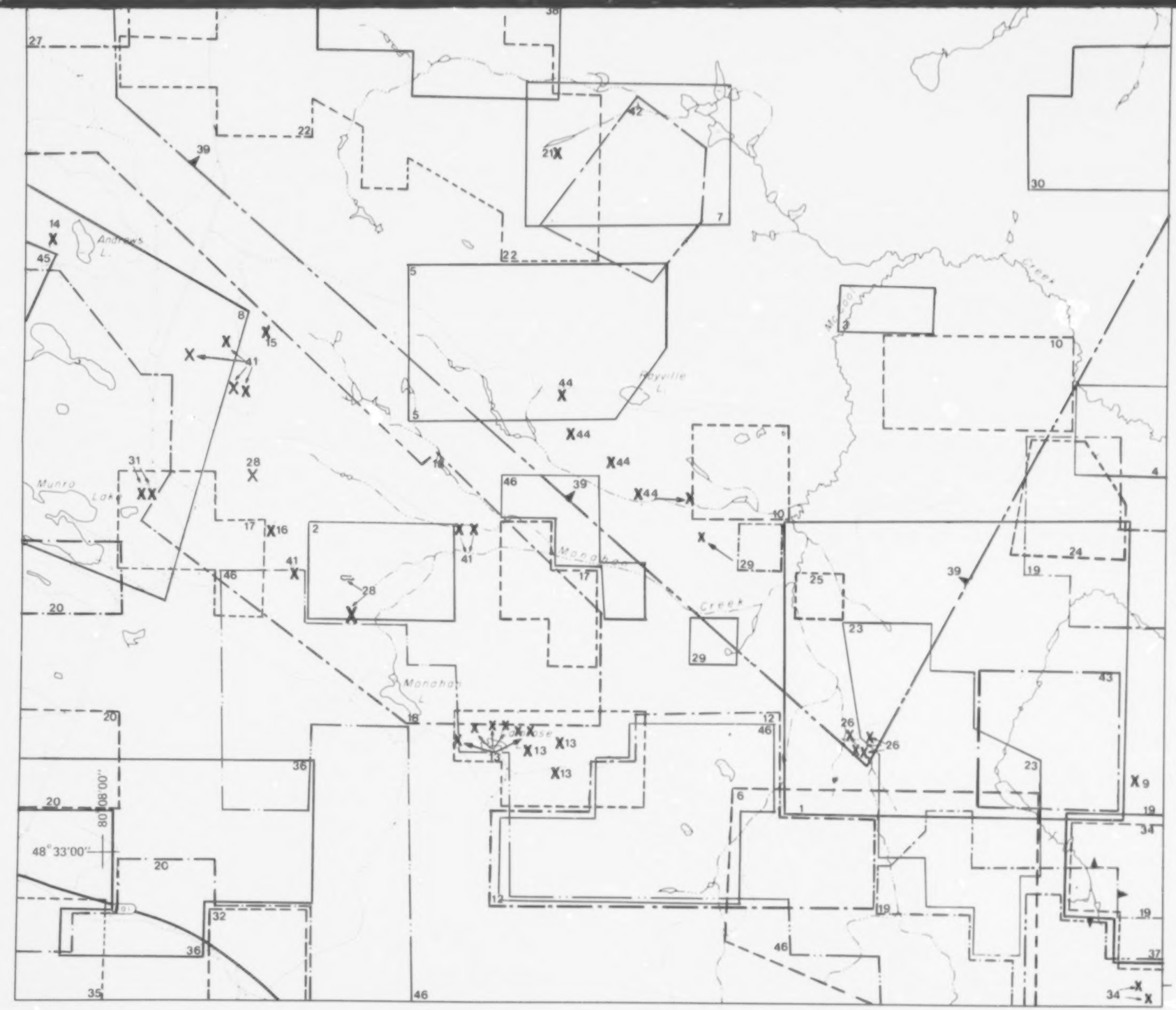
McCOOL TOWNSHIP

DISTRICT OF COCHRANE

Scale 1:31 680

Kilometre 0.5 0 0.5 1 Kilometre

Mile 0.5 0 0.5 1 Mile



EXPLORATION DATA FILE AREAS

- Reference number is always inside work area outlined. See listing in text pages.
- Small area exploration.
- File covers whole township or area

TYPES OF DATA SHOWN ON THIS MAP

GEOCHEMICAL AND GEOCHRONOLOGICAL DATA

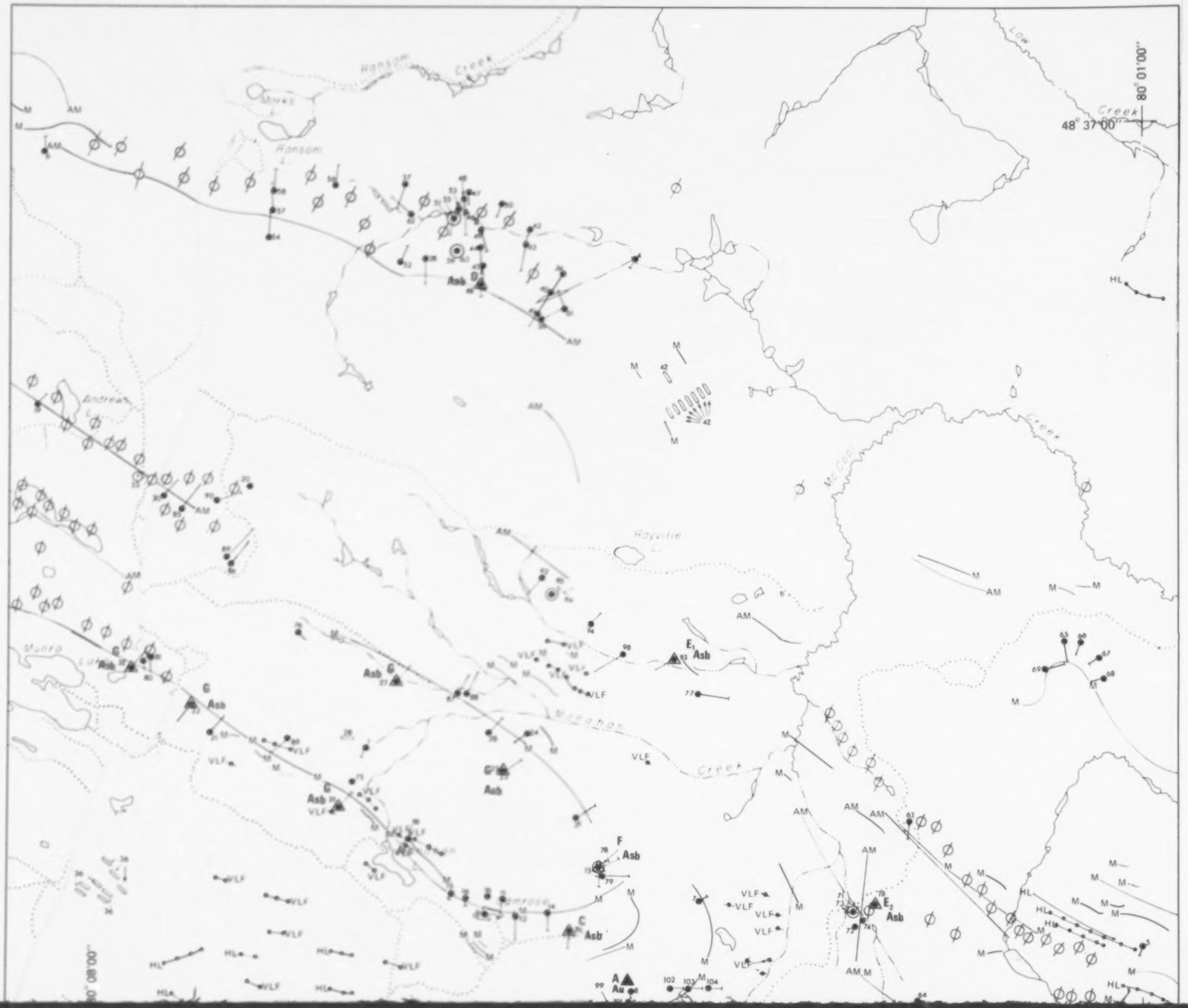
- Geochemical sample site, with reference number
- Area of geochemical sampling, with reference number
- Age dating material sampling site, with reference number

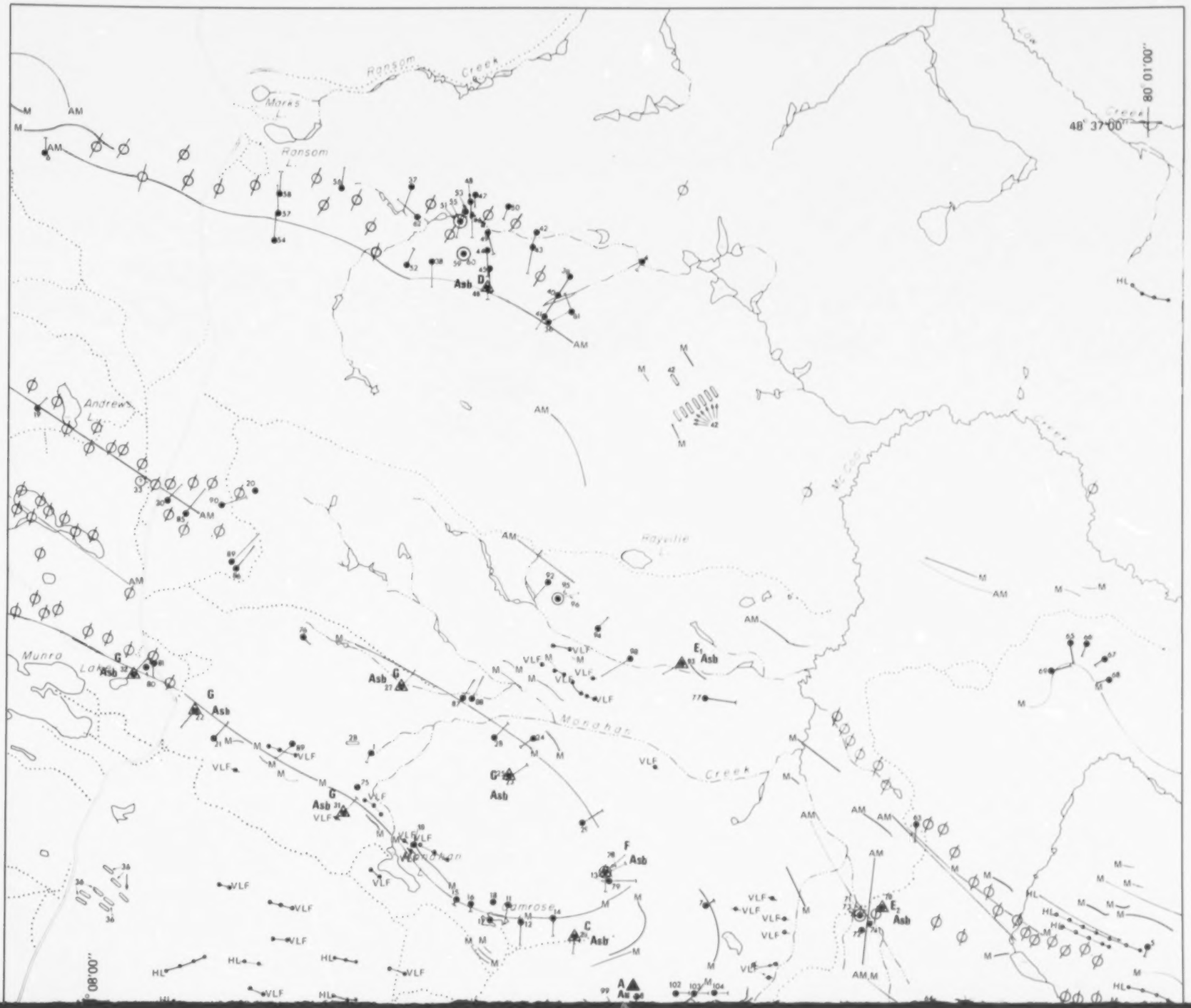
GEOPHYSICAL ANOMALIES

- Airborne magnetic anomaly
- Airborne electromagnetic anomaly
  Length of anomaly along flight line
- Airborne electromagnetic anomaly
  Location of anomaly along flight line
- Airborne electromagnetic anomaly
  Conductor axis: definite, probable, possible
- Airborne radiometric anomaly
- Ground magnetic anomaly
- Ground electromagnetic anomaly
  (VL - Vertical loop; HL - Horizontal loop
  VLF - Very low freq; Turam; JEM -
  Crone Em - 16)
- Ground radiometric anomaly
- Induced polarization anomaly
- Self potential anomaly
- Aurfio-frequency magnetic anomaly
  (total intensity)
- Resistivity anomaly
- Gravity anomaly
- Airborne Electromagnetic Anomaly

MISCELLANEOUS DATA

- Trenching, pit
- Rock quarry
- Adit
- Sand and/or gravel pit





Ministry of Northern Development and Mines

Ontario

Sean Conway, Minister of Mines

ONTARIO GEOLOGICAL SURVEY

EXPLORATION DATA MAP

GEOLOGICAL DATA INVENTORY FOLIO 380

(Map 2 of 2)

McCOOL TOWNSHIP

DISTRICT OF COCHRANE

Scale 1:31 680

Kilometre 0.5 0 0.5 1 Kilometre

Mile 0.5 0 0.5 1 Mile

GEOLOGICAL AND MINING SYMBOLS

TYPES OF DATA SHOWN ON THIS MAP

MINERAL OCCURRENCES

- cp A. — Mineral occurrence at surface, with reference letter
- Au A. 84' — Mineral occurrence with shaft, depth given with reference letter
- Ag A. — Mineral occurrence reported but exact location uncertain, with reference letter
- cp A. — Mineralized float with reference letter
- cp A. — Mineral occurrence in drillhole, with reference letter, and drillhole number

DRILLHOLES

- Location of single drillhole, with reference number
- Location of closely spaced group of drillholes, with reference number
- Drillhole, exact location uncertain, with reference number

Age dating material sampling site, with reference number

GEOPHYSICAL ANOMALIES

- AM — Airborne magnetic anomaly
- Airborne electromagnetic anomaly
  Length of anomaly along flight line
- Airborne electromagnetic anomaly
  Location of anomaly along flight line
- Airborne electromagnetic anomaly
  Conductor axis: definite, probable, possible
- ARA — Airborne radiometric anomaly
- M — Ground magnetic anomaly
- VL — Ground electromagnetic anomaly
  (VL - Vertical loop; HL - Horizontal loop
  VLF - Very low freq; Turam; JEM -
  Crone Em - 16)
- RA — Ground radiometric anomaly
- IP — Induced polarization anomaly
- SP — Self potential anomaly
- AFMAG — Audio frequency magnetic anomaly
  (total intensity)
- R — Resistivity anomaly
- GR — Gravity anomaly
- AEM — Airborne Electromagnetic Anomaly

MISCELLANEOUS DATA

- Trenching, pit
- Adit
- Open pit
- Rock quarry
- Sand and/or gravel pit

NOTE: Consult the text that accompanies this map for pertinent lists of data, references, and abbreviations.

EXPLORATION DATA MAP

GEOLOGICAL DATA INVENTORY FOLIO 380

(Map 2 of 2)

McCOOL TOWNSHIP

DISTRICT OF COCHRANE

Scale 1:31 680

Kilometre 0.5 0 0.5 1 Kilometre

Mile 0.5 0 0.5 1 Mile

GEOLOGICAL AND MINING SYMBOLS

TYPES OF DATA SHOWN ON THIS MAP

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- cp A — Mineral occurrence at surface, with reference letter
- Au A 84 — Mineral occurrence with shaft, depth given with reference letter
- Ag A — Mineral occurrence reported but exact location uncertain, with reference letter
- cp A — Mineralized float with reference letter
- cp A — Mineral occurrence in drillhole, with reference letter, and drillhole number

DRILLHOLES

- Location of single drillhole, with reference number
- Location of closely spaced group of drillholes, with reference number
- Drillhole, exact location uncertain, with reference number
- Property with underground drillholes in this general area, with reference number
- Property with drillholes which have not been plotted on map, with reference number
- Reverse circulation drillhole; churn drilling, with reference number